

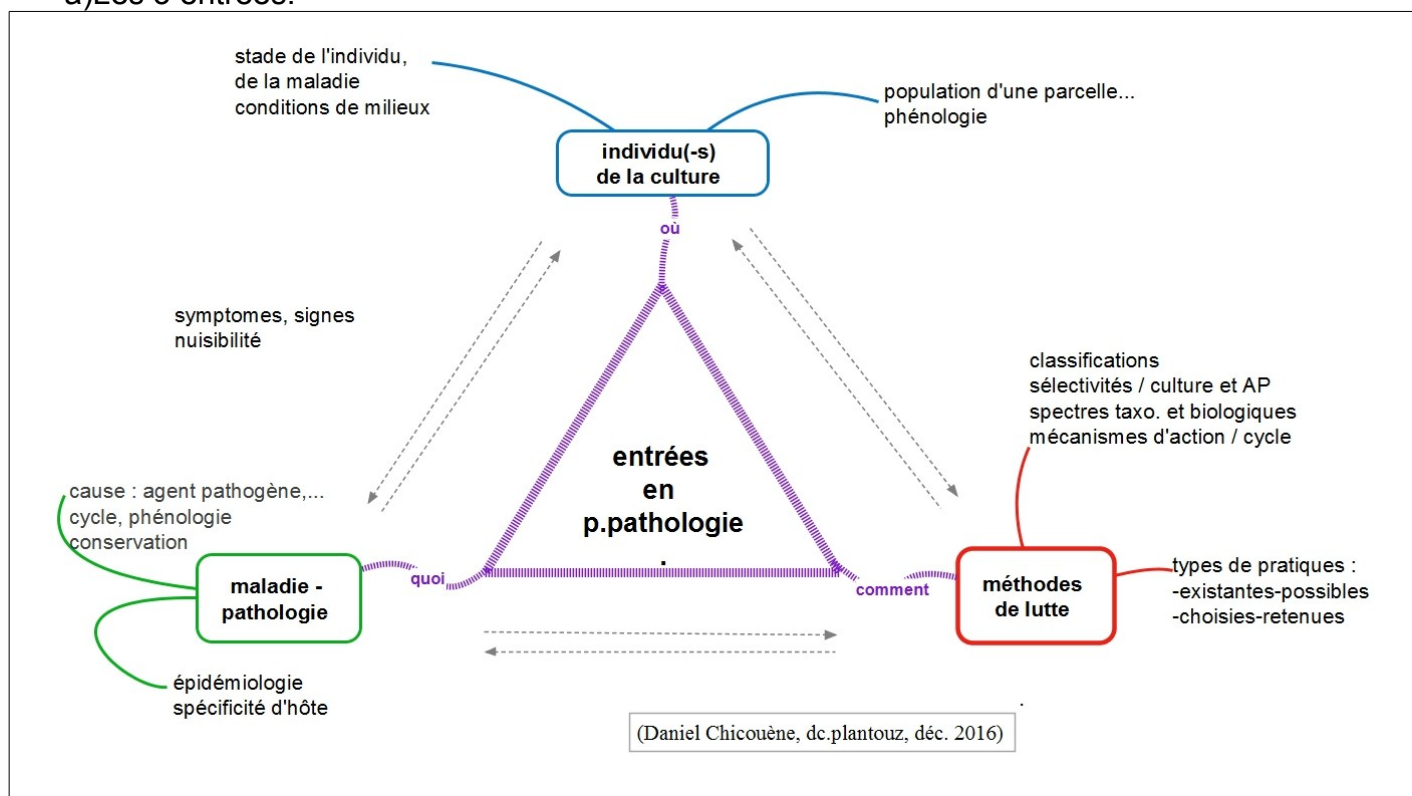
Livres généraux de **phytopathologie** / *general books of phytopathology.*

(Daniel Chicouène, 'dc.plantouz', dernière mise à jour dec. 2016)

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I) Introduction : Généralités.

a) Les 3 entrées.



La phytopathologie (traduction de *Pflanzenpathologie*, terme allemand de Meyen, 1841, ou pathologie végétale) est l'étude des maladies des plantes (dans le but de les limiter ou de les favoriser, selon le contexte).

b) En phytopathologie au *s.l.*, il y a 3 groupes biologiques de causes (de maladies des plantes) :

<u>type de causes</u>	<u>problématique</u>	<u>discipline qui s'en charge</u>
génétiques	internes ; abordées en amont de l'agriculture par les améliorateurs des plantes cultivées	amélioration des plantes
non parasitaires = physiologiques	environnement abiotique : mésologiques (nutrition, profil cultural, météo,...)	phytotechnie
parasitaires	dues à un agent pathogène vivant = environnement biotique	phytopathologie s.s.

c) Relations entre disciplines.



Fig.1 : schéma conceptuel des principales relations **entre disciplines en phytopathologie** (depuis le XIX^e siècle) ————— (extrait de Daniel Chicouène en 2013)

d).Nuisibilité.

Les maladies ou les agents phytopathogènes peuvent être **nuisibles** par :

1-**toxicité** : ergot et fusariose en céréales, *Ustilago longissima* sur graminées de prairies permanentes ; endophyte symbiotique dans fétuque élevée sous-exploitée ; indirectement, via dans des feuilles d'arbres malades tombant en prairies, via des mauvaises herbes comme dans les graines de *Lolium temulentum* en céréales

2-**rendement** : feuillage détruit, ex. 2 tonnes/ha de spores de rouille jaune en blé ; baisse de PS

3-**technique** : conservation (ex. des pommes de terre), plantes naines ou géantes problématiques pour la récolte (dans les rabatteurs de moissonneuse)

4-**indirect** : transmission de virus par champignons (rhizomanie de betterave).

d bis) Les agents phytopathogènes peuvent aussi avoir des **effets positifs** vis à vis des activités humaines :

1-lutte biologique contre les mauvaises herbes (ex. oïdium sur folle avoine) des cultures, (mais problème des fongicides employés parfois simultanément sur la culture), voire hors des terres cultivées sur des plantes envahissantes

2-stérilité de Graminées en prairies pâturées

3-utilisation en pharmacie (ex. ergot)

4-baisse de production nocive, ex. de cultures "vicieuses" = toutes les maladies du tabac... sont utiles pour le bien-être de l'humanité

5-ornemental : des virus peuvent provoquer des symptômes (ex. taches colorées sur les feuilles) que des personnes jugent d'intérêt esthétique, pour des plantes ornementales

e).Descripteurs en phytopathologie.

Les **descripteurs importants en pathologie végétale** sont :

1) connaissance de l'agent pathogène s.l. :

-l'agent pathogène : détermination, taxonomie... pour la communication entre chercheurs ou avec conseillers et agriculteurs

-la spécificité d'hôte (espèce cultivée ou mauvaise herbe ; cultivar)

-symptomatologie : symptômes macro et microscopiques (tissus attaqués...) à différents stades de l'infection, depuis la détection précoce (BM et télédétection) ; mécanismes d'action de l'AP

-reproduction : type, nb de générations par an

-épidémiologie : type et vitesse de dissémination à différentes échelles (intra et inter-parcelles)

-conservation : durée, mode / cycle de l'hôte(-s)

(-écologie des différents stades)

2) méthodes de lutte et inter-relations avec la connaissance de l'AP :

-génétiques (cv. = plantes "améliorées")

-culturelles (rotations pour éliminer l'inoculum de la parcelle ; semences et plans sains, associations culturales et de cv., dates d'implantation ou récolte, fertilisation, amendement calcaire)

-chimiques (fongicides de contact ou systémiques, effet direct ou indirect (ex. laminarine))

-biologiques (résistance du sol, mildiou et viroses en pomme de terre, enrobage de semences par antagonistes)

-thermiques (froid, chaleur)

-écologiques (microclimat dans la parcelle)

-paysagères (dimensions des parcelles, distances entre parcelle,etc).

3) méthodes de contamination artificielle

production et utilisation de l'inoculum,

-en expérimentation phytosanitaire : pour tester des cultivars, des pratiques culturales, des fongicides,...

-en malherbologie : pour tester une lutte biologique.

4) stratégies préventives et curatives de lutte (cf. page correspondante sur Plantouz).

Ces différents aspects complémentaires sont abordés de façon variée dans les ouvrages cités ci-après. Un cadre spatio-temporel est indispensable à la compréhension ; en général, le contexte n'y est pas suffisamment explicite pour l'intelligibilité.

II. Traités de phytopathologie en français :

XVIII^e siècle : 2 références (TOURNEFORT J. Pitton de, 1705 - Observations sur les maladies des plantes. Mém. Acad. Roy. Sci. Paris 332-345
ADANSON)

chronologie approximative en français depuis le début du XIX^e siècle :

PLENCK J.J., 1802

BOITARD M., 1828

CANDOLLE Aug.Pyr. de, 1832

KUHN, 1858

ARBOIS DE JUBAINVILLE Marie-Alexandre d', VESQUE Jules 1878

PRILLIEUX Ed., & al. 1895-1897

BOURCART Emmanuel, 1910

DELACROIX Georges 1902

DELACROIX Georges, MAUBLANC André, 1916

DELACROIX Georges, 1927

MANGIN L. 1914

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MARCHAL E., 1925

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FRON G. 1925 ?

ARNAUD Gabriel & Madeleine, 1931

LIMASSET P., 1945

LIMASSET P., DARPOUX H., 1951

COUTAUD Jean, 1960-1966

SEMAL Jean, 1982

SEMAL Jean & al., 1989

LHOSTE Jean, PONCHET Jacques 1994

CORBAZ Roger, 1990

RAPILLY Frantz, 1991

CHAMPION Rémi, 1997

LEPOIVRE Philippe & al., 2003

XIX^e à XXI^e, détail des références par ordre alphabétique :

ARBOIS DE JUBAINVILLE Marie-Alexandre d', VESQUE Jules 1878 - Les maladies des plantes cultivées: des arbres fruitiers et forestiers produites par le sol- l'atmosphère- les parasites- végétaux, etc. d'après les travaux de Tulasne, de Bary, Berkeley, Hartig, Sorauer, etc. J. Rothschild, 328 p.

ARNAUD Gabriel & Madeleine, 1931 - Traité de pathologie végétale. Lechevalier, Paris, 3 volumes. [Muséum Nantes]

[tome 1. Introduction, vigne, arbres fruitiers, pommier. 993 p. ;

tome 2. Poirier, ... fraisier, cultures méditerranéennes. 995-1831 p. ;

tome 3 : 34 planches]

BOITARD M., 1828 - Phytothérosie. 2^e édition, Roret, Paris. 173-181

[pathologie ; tableau de pathologie végétale d'après Plenck ; nosologie (nomenclature des maladies)]
[perso]

<http://books.google.fr/books?id=CPWubZDPWYcC&pg=PA464&pg=PA464&dq=%22phytotherosie%22&source=bl&ots=bPKI29dsKz&sig=7mXbxuvU0pZ-yAYRYHqAr9X8Mjk&hl=fr&sa=X&ei=8XtcUbCjLMzVPI_FgJAB&ved=0CDwQ6AEwAg#v=onepage&q=%22phytotherosie%22&f=false>

BOURCART Emmanuel, 1910 - Les maladies des plantes : leur traitement raisonné et efficace en agriculture et en horticulture. Doin et Maison Rustique, Paris. 655 p. [BC Roazon 5102]
[catalogue des matières actives p. 33 ; vocabulaire p 551 (présentation des ennemis par ordre alphabétique)]

; pas de références bibliographiques]

BOURCART Emmanuel, 1910 - Maladies des plantes. ["protection des cultures en général"]

CANDOLLE Aug.Pyr. de, 1832 - De l'influence que les végétaux parasites exercent sur ceux qu'ils attaquent, et de leur manière de vivre. *In* Physiologie végétale ou exposition des forces et des fonctions vitales des végétaux pour servir de suite à l'organographie végétale, et d'introduction à la botanique géographique et agricole. Bechet Jeune, Paris tome 3 : 1401-1462

[I)plantes parasites en général ;

II)parasites phanérogames : en général; chlorophylle, radicoles, caulicoles ;

III)parasites cryptogames : en général ; superficielles, intestinales biogènes ; intestinales douteuses qui attaquent les végétaux morts ou mourans ou nécrogènes ; De l'influence de l'épine-vinette sur le blé (p. 1485-1490)]

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CORBAZ Roger, 1990 - Principes de phytopathologie et de lutte contre les maladies des plantes. Presses Polytechniques et Universitaires Romandes, Suisse, 286 p. <[Principes de phytopathologie et de lutte contre les maladies des ...](#)>

[agents ;

épidémiologie ;

infection ;

réaction de l'hôte ;

lutte chimique ;

effets secondaires des fongicides ;

lutte biologique ;

lutte intégrée]

COUTAUD Jean, 1960-1966 - Cours de phytopathologie. Document polycopié, Ecole Nationale Supérieure Agronomique de Rennes. nombreux fascicules.

[Introduction 7 p. ;

maladies non parasitaires 8-12 ;

maladies parasitaires 13- :

physiologie du parasitisme,

méthodes de lutte,

étude systématique par agent pathogène (4 fascicules) ;

les hôtes, symptomatologie, répartition des agents pathogènes par hôte ;

pathologie des semences]

DELACROIX Georges 1902 - Maladies des plantes cultivées. Imprimerie nationale, 73 p.

DELACROIX Georges, MAUBLANC André, 1916 - Maladies des plantes cultivées : maladies parasitaires. Baillière, Paris, 447p. [ENSAR 8230/172]

[1)maladies bactériennes ;

2)maladies produites par champignons ;

3)phanérogames parasites]

DELACROIX Georges, 1927 - Maladies des plantes cultivées : maladies non parasitaires, Volume 1. Baillière, Paris, 415 p.

FRON G. 1925 ?, Les maladies des plantes cultivées & leur traitement. Editeur J. Montaudon, 19 fasc. de 1 pl. et 4 p. texte <<http://bibnum-bu.univ-artois.fr/items/show/107>>

KUHN, 1858 "traité des maladies des plantes" (cité par Marsais, 1949)

LEPOIVRE Philippe & al., 2003 - Phytopathologie. Presses agronomiques de Gembloux, 427 p.

<http://books.google.fr/books?id=JpeG4zBh6sMC&printsec=frontcover&dq=phytopathologie+lepoivre&source=bl&ots=i5U6NEDI_P&sig=k_Yqv_p96PFZY0g5f2i6arOS_Z0&hl=fr&sa=X&ei=HmFDUKOPIMiY0QWl u4DYDA&sqi=2&ved=0CC8Q6AEwAA#v=onepage&q=phytopathologie%20lepoivre&f=false>

[1)concepts généraux ;

2)maladies non parasitaires ;

3)virus ;

4)procaryotes ;

5)protozoaires ;

6)champignons ;

7)angiospermes ;

- 8)mécanismes de résistance ;
- 9)épidémiologie ;
- 10)diagnostic ;
- 11)aspects légaux ;
- 12)pratiques culturelles ;
- 13)amélioration génétiques ;
- 14)lutte biologique ;
- 15)lutte chimique ;
- 16)lutte intégrée ;
- 17) systèmes de production et spécificité ;
- 18)éthique et responsabilité en science]

LIMASSET P., 1945 - Principes de pathologie végétale ; notions sur les principales maladies parasitaires des plantes cultivées. Dunod, Paris, 147 p. [Muséum Nantes]

[Introduction : parasitisme, immunité, historique de la pathologie végétale ;

I)mycoses ;

II)bactériennes ;

III)virus ;

IV)Phanérogames parasities ;

V)techniques de pathologie végétale : recherche et lutte]

LIMASSET P., DARPOUX H., 1951 - Principes de pathologie végétale. Dunod, Paris [BC Roazon 6525 ou 7354 ???]

LHOSTE Jean, PONCHET Jacques 1994 - Histoire de la phytopathologie et...France. [IGEPP Rheu]

MAGROU Joseph - Les maladies des végétaux. L'Expansion scientifique française, 374 p.

[Caractères généraux des champignons.

Maladies des plantes dues aux champignons...

Maladies des plantes dues aux bactéries.

Maladies des plantes dues aux virus.

Les zoocécidies.

Vue générale sur les maladies infectieuses des plantes]

MAGROU J., non daté, vers 1945, Les maladies des végétaux. L'Expansion Scientifique Française, L'Argentière, 374p. [perso]

[Introduction ;

I)caractères généraux des champignons ;

II)maladies des plantes dues aux champignons :

1-maladies localisées, maculeuses, charbons et caries, rouilles, blancs ou oidiums, des organes reproducteurs ;

III)maladies des plantes dues aux champignons : Synchytrium endobioticum

2-maladies hyperplasiques : galle verruqueuse de pomme de terre, du collet de luzerne, hernie du chou, gale poudreuse de pomme de terre ; Exoascales ;

IV)maladies des plantes dues aux champignons :

3-maladies générales : vasculaire, nécroses progressives, chancres, pourritures et pourridiés ;

V)bactéries : locales, hyperplasiques, crown-gall, hairy root, générales ;

VI)protozoaires ;

VII)virus ;

VIII)symbioses : bactériennes, fongiques ;

IX)zoocécidies ;

X)infection et immunité ;

Bibliographie]

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MANGIN L. 1921 - Parasites végétaux des plantes cultivées. Librairies Agricoles, Paris (cité par Marsais, 1949 ; Hist.bot. Fr)

MARCHAL Emile 1925 - Éléments de pathologie végétale appliquée à l'agronomie et à la sylviculture. Jules Duculot, Paris, 312 p.

MARCHAL Emile, MANIL Paul, VANDERWALLE R. 1948 - Éléments de pathologie végétale appliquée à la phytotechnie. Jules Duculot, Paris, 539 p.

MARCHAL E., 1925 - Eléments de pathologie végétale appliquée à l'agronomie et à la sylviculture. Duculot, Gembloux, 313 p. (ggle)

MARCHAL E., 1927 - Eléments de pathologie végétale appliquée à l'agriculture, à l'horticulture et à la sylviculture. Duculot, Gembloux, 335 p. [Bota VIII gén 4387]

[1)Maladies parasitaires d'origine végétale : **moyens de lutte**, **principaux parasites**, **bactéries**, **myxomycètes**, **champignons**, **algues et lichens**, **phanérogames**, **virus filtrants** ;

2)Maladies physiologiques ;

3)détermination, par les caractères extérieurs, des maladies qui s'observent le plus communément]

MARCHAL E., MANIL P., VANDERWELLE R. 1948 - Eléments de pathologie végétale appliquée à la phytotechnie. Duculot, Gembloux, 539 p.

PLENCK J.J., 1802 - Physiologie et pathologie des plantes. Barreau, Paris, 220 p.
<http://books.google.fr/books?id=khhjV7L3zwC&printsec=frontcover&dq=plenck+%22pathologie+des+plantes%22&hl=fr&sa=X&ei=AmRcUYa_FojA0QXux4DwDQ&ved=0CDEQ6AEwAA>

PRILLIEUX Ed., & al. 1895-1897 - Maladies des plantes agricoles et des arbres fruitiers et forestiers causées par des parasites végétaux. Firmin-Didot, Paris. 2 volumes. [Musée botanique Angers]

[tome 1 (421 p.)

Introduction I-XVI

I)parasites cryptogames autres que les champignons 1-48

II)champignons parasites ;

tome 2 (592 p.)

II)suite ;

III)Phanérogames parasites]

RAPILLY Frantz, 1991 - L'épidémiologie en pathologie végétale : mycoses aériennes. INRA Paris, 317 p. <[L'épidémiologie en pathologie végétale: mycoses aériennes](#)> [BC INH] [BC Roazon]

[champs de l'épidémiologie ;

cycle de base ;

climat ;

génétique de l'hôte ;

inoculum primaire ;

contamination, incubation, sporulation ;

dissémination ; captation ;

nuisibilité ;

méthodologie ;

épidémiologie comparée ;

perspectives]

SEMAL Jean, 1982 - Pathologie des végétaux et géopolitique. Maison Rustique, Paris. 270 p.

[BC INH] [BC Roazon]

[histoire de la phytopathologie ;

épiphyties d'hier et d'aujourd'hui ;

pesticides, toxines et lutte biologique ;

amélioration des plantes ;

législations nationales et internationales ;

la géophytopathologie]

SEMAL Jean & al., 1989 - Traité de pathologie végétale. Presses agronomiques de Gembloux, 621 p.

[étiologie ;

facteurs de développement ;

méthodes de lutte ;

phytopathologie et agronomie]

III. Traités de phytopathologie en anglais / *text-books of phytopathology in english* :

chronological order :

BROOK Warner Frederick, 1912
HEALD Frederick Deforest, 1926
BROOKS Frederick Tom, 1928
HEALD Frederick Deforest, 1933
HEALD Frederick Deforest, 1937
HEALD Frederick Deforest, 1943
BUTLER E.J., JONES S.G., 1949
GAUMANN E., 1950
WALKER J.C., 1952
BROOKS F.T., 1953
STAKMANN E.C., HARRAR J.G., 1957
WALKER J.C., 1957
HOLTON C.S. & al., 1959
HORSFALL James G., DIMOND AE., 1959-1960
CHUPP C., SHERF A.F., 1960
WESTCOTT Cinthia, 1960
VAN DER PLANK J.E., 1963
KELMAN A. & al., 1967
Commonwealth Mycological Institute, 1968
PALM Charles E. & al., 1968
ABEYGUNAWARDENA D.V.W. 1969
STROBEL Gary A., MATHRE Don E., 1970
WESTERN John Henry, 1971
ROBERTS D.A., BOOTHROYD C.W., 1972
KRANZ Jurgon, 1974
VAN DER PLANK J.E., 1975
WHEELER Harry, 1975
MILLER Paul R., POLLARD Hazel L., 1976
HORSFALL James G., COWLING Ellis B., 1977-1980
LUCAS John A., 1977
AGRIOS George N., 1978
STREETS Rubert B., 1979
AINSWORTH Geoffrey Clough 1981
LUCAS John A., 1982
MANNERS J.G., 1982
ROBERTS D.A., BOOTHROYD C.W., 1984
WOOD RK.S., SELLIS G.J., 1984
AGRIOS George N., 1988
DASGUPTA M.K. 1988
SMITH I.M., DUNEZ J., LELLIOTT R.A., PHILLIPS D.H., ARCHER S.A., 1988
PARRY Davy W., 1990
FOX R.T.V., 1993
MANNERS J.G., 1993
OKU Hachiro, 1994
HAMMERSCHMIDT Raymond, KUC Joseph, & al.; 1995
AGRIOS George N., 1997
SCHEFFER Robert P., 1997
LUCAS John A., 1998

-
KENNETH HORST R., 2001
SING R.S., 2001
COOKE B.M., GARETH JONES D., KAYE B. 2006
...

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Legend of colors for chapters : **taxonomy**, **control**, **crops**, other enterings.

ABEYGUNAWARDENA D.V.W. 1969 - Diseases of cultivated plants : their diagnosis and treatment in Ceylon. Colombo Apothecaries, 289 p.

AGRIOS George N., 1969, 1978, 1988, 1997 - Plant pathology.

AGRIOS George N., 1978 - Plant pathology. 2nd ed., 703 p. [BC INH]

[I]general aspects (disease development, pathogens, plants defend, genetic, environment, control) ;

[II]specific plant disease (**environmental**, **fungi**, **bacteria**, **mycoplasma-like**, **parasitic higher plants**, **viruses**, **nematodes**, **protozoa**)]

AGRIOS George N., 1988 - Plant pathology. 3 ed., 803 p. [BC INH]

[idem 1978 + I.(+ epidemiology)

+ III. Biotechnology]

AGRIOS George N., 1997 - Plant pathology. Academic Press, San Diego..., 4th ed., 635 p.

[idem 1988] [BC INH] [Bota VIII Gen 2000/625]

AGRIOS George N., 2005 - Plant pathology. Elsevier, ed.5, 922 p. <*Plant Pathology*>

[part I : GENERAL ASPECTS:

1)introduction (issues, history, losses

2)Parasitism and disease development (disease cycle, epidemics);

3)Effects of pathogens on plant physiological functions;

4)Genetics of plant disease;

5)How pathogens attack plants;

6)How plants defend themselves against pathogens;

7)Environmental effects on the development of infectious disease

8)epidemiology

9)**control of diseases**

part II : Specific plant disease :

10)**environmental factors that cause diseases**

11)**fungi**

12)**prokaryotes : bacteria and mollicutes**

13)**parasitic higher plants... algae**

14)**viruses**

15)**nematodes**

16)**flagellate protozoa**

glossary

index 903]

AINSWORTH Geoffrey Clough 1981 - Introduction to the history of plant pathology.

University of Cambridge, 319p.

[introduction p1

1.Historical patterns of plant pathology p3

2.Beginnings : problems of aetiology up to 1858 p12

3.**Fungi** p42

4.**Bacteria** p63

5.**Viruses** p.76

6.**A note on non-parasitic disorders** p99

7.**Chemical control** p108

8.**Control by physical agents** p134

9.The epidemiological approach p141

10.**Legislation and quarantine** p178

11.Organisation for plant pathology p197

12.Recent trends and future prospects p238]

American Phytopathological Society 2012 - Phytopathology. nombreux volumes.

ex. <<http://archive.org/details/phytopathologyv00sociogoo>>

BAWDEN Frederick Charles, 1948 - Plant diseases. Nelson, 206 p.

BAILAY John A. 1986 (+ 2012 ?) - Biology and molecular biology of plant pathogen interactions.

Nato Asi Series, 415 p.

<http://www.amazon.fr/Biology-Molecular-Plant-Pathogen-Interactions/dp/3642828515/ref=sr_1_110?ie=UTF8&qid=1364583268&sr=8-110#reader_3642828515>

BEAUMONT Albert 1959 - Diseases of farm crops. Collingridge, London, 128 p.

BILGRAMI K.S., DUBE H.C. 1984 - A textbook of modern plant pathology. Vani Educational Books, 344 p.

Books Group 2011 - Phytopathology : plant pathology. Books Groups

BROOK Warner Frederick, 1912 - Plant diseases. Blackie, 152 p.

BROOKS Frederick Tom, 1928 - Plant diseases. Oxford Univ. Press, 386 p.

BROOKS F.T., 1953 - Plant diseases. Oxford Univ. Press, 457 p.

BURNS Robert, 2009 – Plant pathology : techniques and protocols. Humana Press, 321 p.

BUTLER E.J., JONES S.G., 1949 - Plant pathology. Mac Millan & Co, London, 879p. [Bota VIII Gen 7889]

[I)General principles : disease, parasitic fungi, pathogenesis, control... ;

II)Selected diseases : cereals, pastures, potatoes, root crops...]

CARLILE W.R. 1988 - Control of crop diseases. Edward Arnold, ed.1

CARLILE W.R. 1995 - Control of crop diseases. ed.2 145 p. <[Control of Crop Diseases](#)>

CARLILE W.R., CARLILE Bill, COULES A. 2012 - Control of crop diseases. Cambridge, ed.3, 178 p.

<<http://books.google.fr/books?id=8QQ7JEJqWPMC&printsec=frontcover&dq=editions:2LTnrbfB8wC&hl=fr&sa=X&ei=ptRVUd3cKtGb0AXp0oGwAQ&ved=0CDcQ6AEwAQ#v=onepage&q&f=false>>

CHANDNIWALA K.M. 1995, 1999 - Recent advances in plant diseases. 5 vol. Anmol Publications, (1995 = 1782 p ; 1999 = 1376 p. ; vol.4 = 1800 p.)

CHAUBE Hriday S., SINGH Uma Shankar 1991 - Plant disease management : principles and practices. CRC Press, 319 p.

CHAUBE H.S., PUNDIR V.S. 2005 – Crop diseases and their management. Prentice-Hall of India, New Delhi, 703 p. <[Crop diseases and their management](#)>

[1)plant disease

2)landmarks in development of plant pathology

3)diagnosis in plant disease

4)disease development

5)mechanism of host defense

6)genetics of host pathogen interaction

7)disease development in populations

8)disease measurement and forecasting

9)principles of plant disease management

10)physical methods

11)regulatory methods

12)cultural practices

13)biological control

14)management through host genes

15)chemical control

16)integrated disease management

17)kingdom : fungi

18)kingdom : protozoa

19)kingdom : chromista (Oomycota)

20)phylum : chytridiomycota

21)phylum : ascomycota

22)vascular wilts

23)phylum : basidiomycota

24)bacteria

25)viruses

26)mollicutes

27)nematodes

28)phanerogamic plant parasites

29)post-harvest diseases

30)diseases of unsettled etiology

31)non-infectious disorders

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[Parasitic diseases. Virous diseases.
Nonparasitic diseases.
Plant disease prevention or control.
Plant pathology methods]

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- 2) recognizing symptoms ;
- 3) isolation and identification ;
- 4) biochemical and physiological methods ;
- 5) microscopy ;
- 6) immunological techniques for identification ;
- 7) nucleic acid- based methods of detection and identification ;
- 8) future]

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[Preface

- 1) introduction
- 2) diagnosis
- 3) epidemiology dynamics...
- 4) epidemiology : biotic environment
- 5) effect of physical environment
- 6) disease forecasting
- 7) exclusion to reduce the amount of initial inoculum
- 8) physical and chemical techniques to suppress initial...

9)biocontrol
10)plant resistance : effects and mechanisms
11)use of plant resistance
12)cultural modifications to suppress the rate of epidemi.dev.
13)effect of chemical in reducing the rate of disease development
14)major groups and uses of chemicals in suppressing the disease development
15)disease management in practice
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2)infection chains : source, transmission, epidemiology ;
3)parasitic adaptation of pathogens ;
4)disease proneness of the host : resistance to infection, penetration, spread ; defense reactions ;
5)disease : morpho. anat. physio. ;
6)control of infectious diseases : prophylaxis, therapy]

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Methods of studying diseases,
Symptoms of diseases,
Environment and diseases,
Diseases caused by environmental factors,
Dissemination of diseases,
General effects of diseases,
Cultural practices in disease control,
Epidemics of diseases,

Biochemistry of defense,
Physical and chemical therapy,
Soil preventing born diseases]

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[Legumes, Solanaceae, Cucurbits, Monocots ;
molecular regulation ;
role and evolution in ecosystems ;
practical application, overview]

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[I)introduction and symptoms ;
II)non-parasitic ;
III)virus ;
IV)parasitic]

HEALD Frederick Deforest, 1943 (1è ed. 1937) - Introduction to plant pathology. Mac Graw - Hill Book Cy, New York, London, ed.2, 603 p. [Bota VIII Gen 7319]
[I)introduction... symptoms... dissemination ;
II)parasitic : fungus, bacteria, parasitic plants, nematodes ;
III)virious diseases ;
IV)nonparasitic]

HOLTON C.S. & *al.*, 1959 - Plant pathology : problems and progress. 1908-1958. Madison : The University of Wisconsin Press, 588 p. [Bota VIII gén 65.173]
[1)historical and development aspects ; Symposium on...
2)physiology of parasitism ;
3)genetic approach : pathogenicity and resistance ;
4)fungicides ;
5)chemistry of fungicides ;
6)soil microbiology and root-disease fungi ;
7)concepts and problems in nematology ;
8)structure of viruses ;
9)multiplication of viruses ;
10)epidemiology of plant diseases]

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-vol. 1. 1977 - How disease is managed. 465 p.[Bota VIII gén 15.679/1]
[how disease is managed ;
2)sociology ;
3)disease diagnosis ;
4)crop destruction ;
5)theory of disease management ;
6)societal constraints on management ;
7)management of environment ;
8)management of associated microbiota ;
9)managing weeds with pathogens ;
10)therapy by heat, radiation and meristem culture ;
11)managing host genes ;
12)chemicals ;
13)mechanism fungicides ;
14)action of nematicides ;
15)action of antiviral agents ;
16)chemotherapy ;
17)resistant to chemicals ;
18)beneficial plant diseases ;
19)society / diseases management ;
20)privately / disease management ;
21)education for the practitioner]

- vol. 2. 1978 - How disease develops in populations. 436 p. [Bota VIII gén 15.679/2]

- [1]introduction, epidemics, phases of thinking ;
- 2)some epidemics man has known ;
- 3)comparative anatomy of epidemics ;
- 4)methodology of epidemiological research ;
- 5)instrumentation for epidemiology ;
- 6)pathometry ;
- 7)inoculum potential ;
- 8)dispersal in time and space : aerial pathogens ;
- 9)dispersal in time and space : soil pathogens ;
- 10)computer simulation of epidemics ;
- 11)forecasting of epidemics ;
- 12)changes in host susceptibility with time ;
- 13)genetic base of epidemics ;
- 14)disease in forest : functional diversity ;
- 15)climatic and weather influences on epidemics ;
- 16)geophytopathology ;
- 17)agricultural and forest practices ;
- 18)epigrant pest]

-vol. 3. How plants suffer from disease

- vol. 4. how pathogens induce disease

- vol. 5. how plants defend themselves

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- vol. 1 "The diseased plant", 674 p. [Bota VIII Gen 9569]

- [1]definitions, pathology, disease... ;
- 2)among the sciences ;
- 3)history ;
- 4)how sick is the plant ;
- 5)tissue is desintegrated ;
- 6)growth affected ;
- 7)reproduction affected ;
- 8)host is starved ;
- 9)water deficient ;
- 10)alteration of respiration ;
- 11)histology of defense ;
- 12)physiology and biochemistry of defense ;
- 13)hypersensibility ;
- 14)predisposition ;
- 15)therapy]

- vol. 2 The pathogen : the concept interaction of causality.

- vol. 3 "The diseased population : epidemic and control", 675 p. [Bota VIII gén 200.098/3]

- [1]inoculum potential : dispersal of pathogens, control measures ;
- 2)inoculum potential : mechanism, living host plant ;
- 3)autonomous dispersal : soil, seeds, plant parts ;
- 4)dispersal by insects and other animals, man ;
- 5)dispersal by air and water : the take off ;
- 6)air and water : flight and landing ;
- 7)analysis of epidemics ;
- 8)forecasting epidemics ;
- 9)quarantine ;
- 10)cultural practices ;
- 11)soil treatment ;
- 12)performance of fungicides ;
- 13)biological interference with epidemics : hyperparasitism, antagonisms ;
- 14)breeding]

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[Brief historical background;

Plant disease concept, definitions, symptoms and classification;

Bacteria;

Fungi ;

Viruses ;

Nematodes ;

Parasitic seed plants ;

Noninfectious plant disease; Air pollution toxicity;

Mollicutes and related organisms as probable causal agents of plant disease;

Market pathology;

Environment - its influence on the development of infectious diseases;

pathogen - production and spread of inoculum;

pathogen - inoculum dynamics and entry into plants;

Variation;

resistant host;

pathogen present in the host;

Host responses to infection;

Plant disease epidemics;

Disease control; Breeding for resistance;

Disease control inoculum reduction;

Disease control - quarantines]

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[BU Angers 58 120 WES 025784]

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1)garden chemicals and their application (fungicides, nematicides... IPM) ;

2)classification of plant pathogens (fungi, bacteria, viruses... nematodes) ;

3)plant diseases and their pathogens (anthracnose...);

4)host plants and their diseases (p. 531-)]

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[1)plant disease : ... pathogens (structure and function) ; disease assessment ; epidemics ;

2)host - pathogen interactions : entry and colonization of the host ; physiology of plant disease ; pathogenicity ; plant defense ; specificity ;

3)disease management : chemicals, host resistance, biological (mycoherbicides...), integrated]

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[Principles and concepts of control;

Plant disease losses;

Disease development;

Disease forecasting; Legal bases of exclusion;

Methods of accomplishing exclusion;

Eradication;

Seed treatment and eradicator chemicals;

Soil fumigation;

Eradication by physical means;

Fungicide development and use; Fungicide characteristics;

Modifying the environment;

Altering cultural practices;

Biological control;

Pathogen-free seed; Pathogen-free vegetative propagative material;
Resistance;
Integrated disease management;
Scientific names of host plants; of pathogens]

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II)physiology of host-parasitic relationships ;
III)genetics of host-pathogen interaction ;
IV)epidemiology ;
V)control]

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[BC INH 10 641]
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[introduction : basic principles ;
1)pathogens and pathogenicity ;
2)resistance of plants ;
3)defense and offense between higher plants and microbes ;
4)control agents based on knowledge of pathogenicity and disease resistance ;
5)systemic induced resistance ;
6)biotechnology]

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[Modern plant pathology.
Definition, symptoms and classification of plant diseases.
Methods of investigating plant diseases.
Plant diseases as related to environment.
Plant diseases control: General statement., Fungicides.
Disease-free seed and nursery stock.
Quarantine and inspection.
Sick soil.
Disease resistance in plants.
Relatio of Insects to plant diseases.
Diseases caused by slime Molds.
Diseases caused by bacteria.
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Diseases caused by fungi - ascomycetes.
Diseases caused by fungi - basidiomycetes.
Diseases caused by fungi-imperfecti.
Diseases caused by algae.
Diseases caused by parasitic seed plants.
Diseases caused by nematodes.
Virus diseases.
Non-parasitic diseases.]

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[1)concept, causes, daignosis and control / disease ;
2)diseases caused by biotic agents (fungi, bacteria, viruses) ;
3)diseases caused by abiotic factors ;
4)disease dynamics : environment ;
5)disease dynamics : inoculum ;
6) disease dynamics : populations ;
7)host parasite interactions ;
8)diagnosis of plant diseases ;
9)general approaches to disease control ;
10)cultural and biological control ;
11)disease resistance ;
12)chemicals ;
13)strategy of control ;
14)future]

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I)Principles ;

- 1)what is disease ;
 - 2)causes ;
 - 3)how build up ;
 - 4)effect on the crop ;
 - 5)control (cultural, biological...)
- II)Practice ;** 6)cereals ; 7)oilseed rape ; 8)peas and beans ; 9)potatoes ; 10)sugar beet ; 11)soybean ; 12)mais ; 13)field vegetables]

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- [Preliminary considerations.
Foundation of a research problem.
General laboratory equipment.
Culture media.
Certain physical-chemical measurements.
Isolation, culture, and inoculation.
Virus diseases.
Certain procedures for pathological histology.
Epidemiology, environment, and control.
Statistical analyses.
Records and manuscripts.
Laboratory exercise topics.]

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- [disease of plants ;
infectious agents ;
events in plant disease ;
controlling disease ;
diseases of plants]

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- [1)history
2)significance
3)host-pathogen relationships
4)classification of plant diseases and principles of pathology
5)genetic of pathogenicity
6)chemotherapy, classification of fungi and symptomatology
7)mycoplasmas and viruses
8)viral
9)bacterial diseases and plant galls
10)diseases
11)ecology, economic importance and fungal biotechnology
glossary
index]

SCHEFFER Robert P., 1997 - The nature of disease in plantes. Cambridge University Press, 325 p. [BU Angers 58 120 SCH 017167]

- [1)perspective ;
I)Biology and control of plant diseases ;
2)causes and spread ;
3)how pathogens attack (toxins...) ;
4)how plants defend (phytoalexins...) ;
5)ecological considerations (managed systems, climatic...) ;
6)control (resistance, chemical, eradication, biological...) ;
II)Natural history of some destructive diseases ;
7)alien pathogens ;
8)alien plants ;
9)movement of crop plants ;
10-13)monoculture : adaptability... ;

- 14)changes in agriculture ;
- 15)reintroduction each year ;
- 16)abiotic diseases]

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SCHUMANN Gail Lynn, D'ARCY Cleora J. 2010 – Essential plant pathology. APS Press, ed.2, 369 p.

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- 14)diseases by Ascomycotina 264
- 15)d by Basidiomycotina : rusts 293
- 16)d by Basidiomycotina : smuts 319
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- 18)d by viruses 399
- 19)d by Nematodes 433
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- 21)non-parasitic diseases caused by environmental factors 449
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- [1) introductions, infectious pathogens ;
- 2)general principles ;
- 3)cultural practices ;
- 4)biological control ;
- 5)management of the host ;
- 6)chemicals ;
- 7)strategie]

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[viruses, mollicutes, bacteria, oomycetes, chytridiomycetes ; plasmodiophoromycetes ; zygomycetes, ascomycetes, basidiomycetes]

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- [1)importance of plants ;
- 2)importance of plant diseases ;

3) nature and classification of plant diseases ;
 4) causes of plant diseases ;
 5) nature and classification of plant pathogens ;
 7) genetics ;
 8) production and liberation of inoculum ;
 9) dissemination of plant pathogens ;
 10) phenomena of infection ;
 11) effect of environment and nutrition on disease development ;
 12) plant diseases of international importance ;
 13) diseases in transit and storage ;
 14) quarantine ;
 15) cultural practices ;
 16) chemical control ;
 17) resistant varieties ;
 18) future problems and prospects]

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 [introduction ;
 plant clinic ;
 methods of diagnosis ; special methods ;
 non parasitic diseases ;
 bacterial ; nematodes ; virus ;
 imperfect fungi ; myxomycetes and phycomycetes ; ascomycetes ; basidiomycetes]

STROBEL Gary A., MATHRE Don E., 1970 - Outlines of plant pathology. Reinhold, New York, 465 p. [Bota VIII gén 15.332]
 [I) impact, field, nature, concepts ;
 II) plant disease : expression, viruses, bacteria, fungi... ;
 III) inoculum ;
 IV) host-parasite relations ;
 V) defense of the host ;
 VI) control of plant disease]

TRIVEDI Pravin Chandra 2001 - Plant pathology. Pointer Publisher, 422 p.
 [Diseases Scenario of Bacterial Diseases,
 Biological Control of tissue culture in raising Virus-Free Plants,
 Diseases of Wheat, Apple, Mulberry, Citrus, Coconut, Garlic, Fodder Crops, Opium, Tea, Palms,
 Mushrooms, Sorghum and their Management.
 Management of Nematode Diseases
 Diseases caused by Fungi, Bacteria, Virus, Nematodes and their Management]

TUITE John Francis 1969 - Plant pathological methods : fungi and bacteria. Burgess Pub. Co., 239 p.
 [Media and nutrient solutions used by plant.
 Desinfection and sterilization: sterilization of laboratory.
 Isolation of bacteriophage and plant pathogenic.
 Diagnosing the causes of plant diseases.
 Increase of inoculum.
 Establishment of disease: inoculation, infection.
 Preservation of microorganisms.
 Microscopic techniques.
 Writing for publication]

VAN DER PLANK J.E., 1963 - Plant diseases : epidemics and control. Academic Press, New York, 349 p. [Bota VIII (2A) 821/049]
 [1) part of epidemiology ;
 2) interest on Money ;
 3) apparent infection rates ;
 4) plot the progress of an epidemic ;
 5) basic infection rate ;
 6) latent period ;

- 7) values of infection rates ;
- 8) corrected infection rates ;
- 9) stochastic methods in epidemiology ;
- 10) control of disease ;
- 11) sanitation (potato blight) ;
- 12) sanitation wheat stem rust ;
- 13) sanitation and 2 systemic diseases ;
- 14) vertical and horizontal resistance against potato blight ;
- 15) history of stem rust epidemics... ;
- 16) disease in biological warfare ;
- 17) bases of vertical resistance ;
- 18) general resistance against disease ;
- 19) choice of type of resistance ;
- 20) quantitative effect of horizontal resistance ;
- 21) fungicides ;
- 22) how disease spreads as it increases ;
- 23) cryptic errors in fields experiments]

VAN DER PLANK James Edward, 1975 - Principles of plant infection. Academic Press, New York, 216 p. [Bota VIII (IIA) 15.693]

- [1] relation amount of inoculum / of disease ;
- 2) more about disease / inoculum curves ;
- 3) effect on disease of variable, limiting factors other than inoculum ;
- 4) epidemics : the time dimension ;
- 5) when time is unimportant. Endemic disease ;
- 6) spread of disease. Time and distance as dimensions ;
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- [1] introduction, definitions ;
- 2) history ;
- 3) nonparasitic diseases ;
- 4) bacterial ;
- 5) Plasmodiophorales ;
- 6) Phycomycetes ;
- 7) fungi imperfecti ;
- 8) Ascomycetes ;
- 9) Basidiomycetes ;
- 10) phanerogamic parasites ;
- 11) nematodes ;
- 12) virus ;
- 13) environment + disease development ;
- 14) host-parasite interaction ;
- 15) exclusion and eradication ;
- 16) protection : ... cultural practices... fungicides ;
- 17) host resistance]

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- 1) why do plants need defenses
- 2) what defenses do plants use
- 3) sounding the alarm : signaling and communication in defense
- 4) defense in the real world : multiple attackers and beneficial interactions
- 5) evolution of plant defense
- 6) exploiting plant defense

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2)mechanisms of pathogenesis ;
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2)garden chemicals ;
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4)diseases and their pathogens ;
5)**host plants and their diseases**]

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[Entry of bacteria and fungi into plants;

Factors affecting infection; direct effects of the host plant;

Factors affecting infection, interactions between pathogen and othe microorganisms.

Latent infection;

The degradation of cell walls of higher plants by parasites;

Cell wall degrading enzymes in different plant diseases;

Toxins in diseases associated with necrosis;

Alterations in the growth patterns of plants;

Toxins, growth regulating and high-molecular weight substances in vascular wilts;

Blockage of xylem elements and the part played by enzymes in vascular wilts;

Alteration in metabolism in diseased plants;

Disease resistance: substances present in plants before infection;

Disease resistance; pre-formed structures; nutrient and other deficiencies; inactivation of toxins and enzymes;

Disease resistance: systems which develop in plants after infection]

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[1)how pathogens cause disease (toxins, cell wall degrading, growth regulators, biotrophy) ;

2)physiological responses of plants (photosynthesis, respiration, transport systems, root growth, tolerance) ;

3)infection and host damage (processes, symptomatology, root, foliar, reproduction, vascular, galls, viruses) ;

4)damage and loss (world crop losses, **orchards, cereal, cotton, potato, ornamental, forest, tropical crops**)]

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